

WHAT IS CLAIMED IS:

1. ~~A glass touch sensing circuit comprising:~~

a touch sensor for providing its output signal in
5 response to a user's touch;

switching means having a switching period of time
differently determined depending on the level of the output
signal from said touch sensor;

comparison means for compensating the level of a
10 reference signal for a variation in temperature, comparing the
level of an output signal from said switching means with that
of the compensated reference signal and outputting a wave-
shaped signal in accordance with the compared result; and

touch detection means responsive to an output signal from
15 said comparison means for detecting whether the user touches
said touch sensor.

2. A glass touch sensing circuit as set forth in Claim 1,
further comprising charging/discharging means for charging and
20 discharging a voltage which is different in level according to
whether the user touches said touch sensor, said switching
time period of said switching means being determined depending
on the level of said voltage being charged and discharged by
said charging and discharging means.

3. ~~A glass touch sensing circuit as set forth in Claim 1,~~
wherein said touch detection means includes:

signal output means for providing its output signal
synchronously with said output signal from said comparison
5 means; and

recognition means for recognizing a touched key in
response to the output signal from said signal output means.

4. A glass touch sensing circuit as set forth in Claim 3,
10 wherein said recognition means is adapted to recognize the
input of said touched key and initialize said signal output
means.

5. A glass touch sensing circuit as set forth in Claim 1,
15 wherein said touch detection means includes:

a D flip-flop having a clock terminal connected to an
output terminal of said comparison means, said D flip-flop
being enabled in response to a clock signal being applied to
said clock terminal; and

20 a microprocessor having an input terminal connected to an
output terminal of said D flip-flop, said microprocessor
recognizing the user's touch with said touch sensor in
response to an output signal from said D flip-flop and
initializing said D flip-flop.

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6. ~~A glass touch sensing circuit as set forth in Claim 1,~~
wherein said comparison means includes a thermistor for
compensating the level of said reference signal for the
temperature variation.

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7. A glass touch sensing circuit as set forth in Claim 6,
wherein said comparison means further includes a comparator
having a first input terminal connected to an output terminal
of said switching means, and a second input terminal for
10 inputting a voltage determined in level by said thermistor and
fixed resistors.

8. A glass touch sensing circuit as set forth in Claim 1,
wherein said switching means includes a transistor turned on
15 ~~in response to said output signal from said touch sensor.~~

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